

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re the Application of:

Atty.

ECH CENTER BOOSOO Docket 006401.00378

No.:

Antrim et al.

Serial

10/089,496

Group Art Unit:

N/A

No.: Filed:

July 30, 2001

Examiner:

N/A

For:

**ROOT RETARDANT** 

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. & 1.56, 1.97 and 1.98, is Form PTO/SB/08A (substitute for form PTO-1449/A/PTO), submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form PTO/SB/08A, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form PTO/SB/08A is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

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The Information Disclosure Statement is being filed:

	within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.
<u>X</u>	after (a), (b), (c) or (d) above, but before the mailing date of a final actin uncer 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes <i>one</i> of:
	the statement under 37 CFR 1.97(e) (see "statement under 37 CFR 1.97(e)" below).
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	after the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and within thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
	Respectfully submitted,
10 S. V Chicag Tel: (3	Columbia

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/089,496

Filing Date July 30, 2001

First Named Inventor Antrim et al.

Group Art Unit

Examiner Name

(use as many sheets as necessary)

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Attorney Docket Number 006401.00378

			U.S. PATENT	OCUMENTS	
Examiner Initials *	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
iiiidai3	110.	Number - Kind Code <sup>2</sup> (if known)			Figures Appear
	1.	US-5,573,997	November 12, 1996	Lojek	
	2.	US- 5,622,743	April 22, 1997	Tanaka et al.	
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	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵	
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<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional) . <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04.
<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>8</sup> Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)

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Antrim et al.

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**Application Number** 

First Named Inventor

Filing Date

Group Art Unit

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	2	of	2	Attorney Docket Number	006401.00378

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ²
V	3.	COOK, A.H. et al., "Chemical Aspects of Malting. II. Method for Assaying the Germination-Inhibitory Activity of Barley Steeping Liquors", <u>J. Inst. Brewing</u> , 1952, 58: 407-13, Abstract.	
	4.	PEERS ET AL., "Germination-Inhibitory Substances in Oat Husk", W. African J. Bio. Chem., 1958, 2: 9-14, Abstract	
	5.	ADKINS ET AL., "The Physiological Basis of Seed Dormancy in Avena Fatua", Crop Science Plant Ecol, 1985, 310-16, Abstract.	
	6.	MISSEN ET AL., "Metabolism of Sinapis Alba Seeds in Water Under Anaerobic Conditions", Phytochemistry, 1970, 1473-18, Abstract.	
v	7.	A. H. COOK ET AL., "Method for Assaying the Germination-Inhibitory Activity of Barley Steeping Liquors", <u>J. Inst.</u> <u>Brewing</u> , 1952, 407-413.	
V	8.	K.T. LUU et al., "Characterization of Inhibitory Substances of Tall Fescue on Birdsfoot Trefoil", Crop Science, 29, 1989, 407-412	
シ	9.	GRIFFITHS ET AL., "Retardation of Modification and Enzyme Formation in Barley Endosperm by Steep Liquors and Other Substances", J. Inst. Brewing, 1962.	
~	10.	MATSUSHIMA ET AL., "Physiological Activities of Zeanic Acid, a New Plant-Growth Promotor from Corn Steep Liquor", 1972, Publication of University of Tokyo, Japan, pp 1873-1880.	
レ	11.	MATSUSHIMA ET AL., "Isolation of Zeanic Acid, a Natural Plant Growth-regulator from Corn Steep Liquor and its Chemical Structure", 1972, Publication of Sankyo Co., Ltd. Tokyo, Japan, pp 1865-1871.	
~	12.	"Isolation of a New Quinoline, 2,8-Dihydroxycinchoninic Acid from Corn Steep Liquor", Agr. Bio. Chem, Vol. 34, No. 9, 1970, pp 1430-1431.	
ن. ن	13.	EVENARI, "Germination Inhibitors", <u>The Botanical Review,</u> 1949, Vol. XV, Hebrew University, Jerusalem.	

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.